

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,938,244 B1
APPLICATION NO. : 09/551957
DATED : August 30, 2005
INVENTOR(S) : Eric C. Perlin et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the title page, item (75), in “Inventors”, in column 1, line 2, after “Vinay Deo,” delete “Redmond,” and insert -- Bellevue, --, therefor.

In column 1, line 66, after “associated” insert -- , --.

In column 4, line 8, delete “it” and insert -- its --, therefor.

In column 4, line 11, delete “circuits” and insert -- circuit --, therefor.

In column 4, line 32, delete “manufacture.” and insert -- manufacturer. --, therefor.

In column 5, line 23-48, delete

“As alluded to above, the inclusion of the innovative CDI 114 and SCDI 110 within development system 100 support an interlaced debug protocol that interlaces debug frames with standard application frames comprising a normal communication flow between computer system 102 and smart **card 104**.

According to one embodiment, the debug frames are generated in response to user interaction with a debug environment of application development tool 118 executing a smart card application. The debug frames are sent to CDI 114, which identifies the debug frames and interlaces such frames with the normal application frames (generated by the application executing within the application development tool) and sent to smart card 104 via card reader 106 and communication medium 108. SCDI 110 receives the communication from computer system 102, identifies and routes the debug frames to a debug monitor, while application frames are promoted to an appropriate application/resource of the smart card (i.e., as identified by a source/destination address). The received debug frames include debug instructions which selectively invoke smart card resources (e.g., API's device drivers, applications, etc.), providing a user with a heretofore unavailable view of system state information while an application is executing on the smart card. As described above, this state information is **pricelss** during application development.” and

insert -- As alluded to above, the inclusion of the innovative CDI 114 and SCDI 110 within development system 100 support an interlaced debug protocol that interlaces debug frames with standard application frames comprising a normal communication flow between computer system 102 and smart **card 104**. **According to one** embodiment, the debug frames are generated in response to user interaction with a debug environment of application development tool 118 executing a smart card application. The debug frames are sent to CDI 114, which identifies the debug frames and interlaces such frames with the normal application frames (generated by the application executing within the application development tool) and sent to smart card 104 via card reader 106 and communication medium 108. SCDI 110 receives the communication from computer

system 102, identifies and routes the debug frames to a debug monitor, while application frames are promoted to an appropriate application/resource of the smart card (i.e., as identified by a source/destination address). The received debug frames include debug instructions which selectively invoke smart card resources (e.g., API's, device drivers, applications, etc.), providing a user with a heretofore unavailable view of system state information while an application is executing on the smart card. As described above, this state information is **priceless** during application development. --, therefor.

In column 6, line 11, delete "independently" and insert -- independent --, therefor.

In column 7, line 26, delete "derives" and insert -- devices --, therefor.

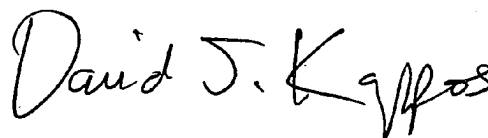
In column 8, line 24, delete "a" and insert -- as --, therefor.

In column 8, line 25, delete "application" and insert -- applications --, therefor.

In column 8, line 35, delete "making" and insert -- marking --, therefor.

Signed and Sealed this

Thirtieth Day of March, 2010

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style with a large, stylized 'D' and 'K'.

David J. Kappos
Director of the United States Patent and Trademark Office